

Special Issue

Remote Sensing for Mineral Exploration: Current Progress and Future Vision

Message from the Guest Editors

Remote sensing technology can rapidly, accurately, and non-destructively obtain information regarding the mineralization of surface and underground mineral deposits, becoming an efficient and economical detection method in mineral exploration. It has been achieved in mineral exploration, covering the identification of lithology, alteration extraction, fine minerals, and prospective prediction. In particular, hyperspectral remote sensing technology has shown significant advantages in finely identifying rocks and minerals. With the application of advanced methods such as artificial intelligence and machine learning, the capabilities of remote sensing technology in mineral exploration have been significantly enhanced. This Special Issue will outline the latest advances and trends in remote sensing-based mineral exploration, and contribute to the sustainable development of the global mining industry. We welcome the submission of articles related to this topic, including research based on new advances in laboratory hyperspectral reflectance and research performed using recent and emerging technologies such as hyperspectral imaging and deep learning.

Guest Editors

Dr. Hengqian Zhao

Prof. Dr. Zhifang Zhao

Dr. Joana Cardoso-Fernandes

Dr. Deshuai Yuan

Deadline for manuscript submissions

30 June 2026



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/226048

Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

[mdpi.com/journal/
remotesensing](https://mdpi.com/journal/remotesensing)





Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



[mdpi.com/journal/
remotesensing](https://mdpi.com/journal/remotesensing)



About the Journal

Message from the Editorial Board

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

Editors-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

Prof. Dr. Dongdong Wang

Institute of Remote Sensing and Geographic Information Systems, Peking University, Beijing, China

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

Journal Rank:

JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)